

FURNISH, INSTALL, MAINTAIN, SERVICE, AND REMOTELY MONITOR
A HIGH PURITY DEIONIZED WATER TREATMENT SYSTEM

NOTE: THIS SPECIFICATION AND ANY ACCOMPANYING SPECIFICATION OR BID CAN BE APPEALED.

YOUR APPEAL MUST BE SUBMITTED IN WRITING TO THE CITY PURCHASING DIRECTOR FOR ALL BIDS **NO LATER THAN FIVE (5) WORKING DAYS PRIOR TO BID OPENING.**

YOUR APPEAL MUST NOT ONLY IDENTIFY THE PROVISION, TERM OR CONDITION THAT IS CAUSING PROBLEMS, BUT ALSO YOUR PROPOSED ALTERNATE POSITION, TERM OR CONDITION AND BE SUPPORTED BY TECHNICAL DATA, TEST RESULTS AND OTHER INFORMATION.

CONTACT THE APPROPRIATE PURCHASING AGENT OR THE PROCUREMENT SPECIALIST FOR THE APPEAL FEE AND APPEAL FILING INSTRUCTIONS.

APPEALS RECEIVED LATER THAN FIVE (5) WORKING DAYS PRIOR TO BID OPENING OR WITHOUT SUFFICIENT DETAILS **WILL NOT BE CONSIDERED.**

NOTICE
AN APPEAL FEE (CHECK OR MONEY ORDER) WHICH IS 1% OF THE
ESTIMATED DOLLAR AMOUNT OF THIS CONTRACT IS
REQUIRED WITH A BID SPECIFICATION APPEAL. THIS FEE IS A
PREREQUISITE FOR PURSUING THE APPEAL AND MUST ACCOMPANY THE APPEAL.
THE APPEAL FEE WILL BE RETURNED IF THE APPEAL IS UPHELD.

CAUTION: A BID THAT DOES NOT FULLY COMPLY WITH ALL OF THE PROVISIONS, TERMS, AND CONDITIONS OF THIS OR ANY ACCOMPANYING SPECIFICATION AND BID, MAY BE DETERMINED AS A COUNTEROFFER AND MAY RESULT IN THE BID BEING REJECTED FOR NON-RESPONSIVENESS

- I. **GENERAL:** It is the intent of this Specification to describe the minimum requirements for furnishing, installing, maintaining, servicing and remotely monitoring a High Purity Deionized Water Treatment System used by the City of Milwaukee Health Department to convert City water to distilled water. All items, details of construction, services or features not specifically mentioned which are regularly furnished in order to provide a High Purity Deionized Water Treatment System shall be furnished at the bid price and shall conform in strength, quality and workmanship to that usually provided by the practice indicated in this document
Specification
- II. **AWARD AUTHORITY:** The City Purchasing Director will be the sole judge of the quality and suitability of the equipment, materials and/or services offered in its determination of the successful bidder.

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- III. WARRANTY: The Deionized Water Treatment System and all of its components shall be warranted 100% Parts and Labor for a minimum of one year from date of installation.

Under this provision, the seller and/or the manufacturer shall repair or replace any part, feature, or component that fails during the warranty period at no cost to the City of Milwaukee including freight.

A complete warranty statement confirming the above should be included with the bid or furnished within three (3) working days of receiving a request.

- IV. SERVICE FACILITY: Bids will only be accepted from vendors who currently have a service facility located within a 100 mile radius of the City of Milwaukee City Hall. This service facility must be stocked with the necessary parts for maintaining, servicing and repairing the High Purity Deionized Water Treatment System bid.

This service facility must also be capable of providing 24 hour service. The names and telephone numbers of the vendor's service personnel for after hours emergency service shall be provided upon request after the contract is awarded.

Bidders should provide the name and address of their service facility with their bid or within three (3) working days of receiving a request.

- V. SERVICE PERSONNEL: Due to the critical nature of this system and its proximity to the Health Department laboratories, all of the contractor's service personnel assigned to the installation and maintenance of this system must pass a City of Milwaukee background check administered by the Milwaukee Police Department. Only those personnel that pass this background check will be allowed to have access to and work on this equipment as well as the Nano Pure Water Polishers and the resistivity meters located in the Virology and Media Prep Laboratories.

I. SYSTEM TECHNICAL REQUIREMENTS:

- A. The High Purity Deionized Water Treatment System described herein shall be utilized by the City of Milwaukee Health Department Laboratory Division for converting City of Milwaukee tap water into distilled water for laboratory use. Contractors are hereby required to furnish all labor, equipment and materials to furnish, install, maintain, service, and remotely monitor a new High Purity Deionized Water Treatment System and all of its related components described herein. Quoted price per gallon of deionized water usage/production shall also include all mileage, travel time, parts and shipping costs.

B. System Details:

1. The system shall be the same size and capacity of the existing Water Treatment System and shall be capable of producing a minimum of 225 gallons of distilled

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water on a daily basis.

2. System shall consist of five Spun fiberglass tanks, installed in the following sequence:
 - One (1) 3.6 cf of medical grade carbon tank on the inlet side of the system equipped with a pressure gauge
 - One (1) 3.6 cf Cation tank
 - One (1) 3.6 cf Anion tank
 - One (1) 3.6 cf primary mixed bed resin tank (200,000 ohm) with quality indicator light
 - One (1) 3.6 cf final mixed bed tank (1 Meg ohm measured in resistivity) with quality indicator light.
3. The system will have a minimum grain removal capacity of 52,000, with one (1) grain of hardness equal to 17.1 PPM of
4. hardness.
 - The replacement carbon tank must be prepped (sanitized and flushed) at time of production and within two weeks of the date needed.
 - Individual tank regeneration will require full traceability of each tank.
5. The new system shall be equipped with all necessary monitors, meters and/or alarm(s) required to alert the City of Milwaukee laboratory personnel that there is a problem with the system.
6. The outlet side of the system shall also include one 5 micron paper pre-filter and one 5 micron paper final filter (resin trap).
7. All tanks shall be interconnected with the inlet side being City water.
8. System shall be equipped with a resistivity meter with alarm.
9. Voltage shall be 120 VAC.
10. Pressure: 150 PSI

II. INSTALLATION SITE:

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- A. Second floor of the City of Milwaukee, Zeidler Municipal Building, 841 N. Broadway, Milwaukee, WI 53202.
- B. This turnkey installation shall also include but not be limited to the connection of all required components, all wiring and all piping, system startup testing, and training.
- C. During the performance of all work applicable to the Deionized Water Treatment System, workers will not be allowed access to the laboratories on the east and west sides of the elevator lobby.

Note: Worker access to the laboratories located on the east and west sides of the 2nd floor elevator lobby for the purpose of servicing the Nano Pure Water Polishers and resistivity meters described in this specification will only be permitted with proper escort by a designated Health Department laboratory representative.

III. MAINTENANCE/SERVICE REQUIREMENTS:

- A. Contractor must be an authorized distributor of the system bid with the necessary experience to maintain the system as required by the Laboratory Division of the Milwaukee Health Department.

Bids will only be accepted from authorized distributors of the deionized system bid, who have a proven track record for maintaining the system bid.

Contractor should provide a minimum of three (3) letters of reference from public health, hospital, or university laboratories of comparable size to the system being bid and for which similar maintenance service was performed with the bid or within three (3) working days of receiving a request. These letters must include the contract term, contact names and their telephone numbers.

- B. Maintenance of the new deionized water treatment system shall also include the following:
 - 1. Maintenance of the existing Nanopure Water Polishers located in the Virology and the Media Prep sections of the Lab. Maintenance of the Nanopure Water Polishers shall be performed by either a factory authorized service facility/distributor or a serviceman that has extensive experience with such polishers. Maintenance shall consist mainly of the replacement of filters and any other in-service parts on an as needed basis.
 - 2. Annual resistivity calibration of the (2) in-line Thornton 200CR resistivity meters located in the Virology and Chemistry sections.

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3. Annual resistivity calibration of the Barnstead Nanopure Model D4741 water polisher located in in the Media Prep section of the Lab.

ALL FILTERS AND IN-SERVICE PARTS MUST BE OEM (NO SUBSTITUTES).

SAME DAY SERVICE IS REQUIRED FOR THE NANO PURE WATER POLISHERS.

- C. Contractor must be able to respond to calls for service within a maximum of four hours of receiving a call for service from the Milwaukee Health Department.
- D. At the completion of all service calls, contractor will be required to provide the City of Milwaukee Health Department laboratory representative with a written report describing in detail the work that was performed.

IV. REMOTE MONITORING:

The operation of the installed system shall be remotely monitored by the installing/servicing contractor during the hours of 7:00 AM through 4:45 PM Monday through Friday and the cost for remote monitoring shall be included in the cost per gallon of deionized water usage/production.

If contractor detects a problem with the system during the remote monitoring time frame noted above, contractor will be required to contact the designated Health Department representative to alert that person of the problem and to send a serviceman to correct the problem within four hours of detecting such problem.

Contractor should not only provide details of what remote monitoring will entail but also confirm that the service will be performed during the hours of 7:00 AM through 4:45 PM and that they will respond within four hours to correct a detected problem with their bid or within three (3) working days of receiving a request.

V. TRIED, PROVEN AND IN CURRENT USE:

Bids will only be accepted for systems that are tried proven and in current use. Descriptive literature from the manufacturer of the system bid should be included with the bid submittal or be provided within three (3) working days of receiving a request..

VI. INSURANCE REQUIREMENTS:

The successful bidder is required to provide the City with evidence of insurance coverage. The insurance coverage must comply with the City of Milwaukee insurance requirements.

Work shall not commence until the insurance documents are approved.

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VII. OPTIONAL BIDS:

Bidders shall provide the following with their bid submittal:

- A. Cost for providing service and calibrating the resistivity meters located in the Virology and Media Prep laboratories.

Service and calibration of these meters shall be performed by factory authorized service facility/distributor on an annual basis.

- B. Cost to provide a 50 lb. Bag of water softener salt on an as needed basis.

- C. Hourly rates for remotely monitoring the system after regular hours, and on Saturday, Sunday and holidays.

VIII. INVOICING:

The successful contractor shall invoice the Health Department on a monthly basis for the exact usage/production of deionized water.

IX. TIME OF PERFORMANCE

Three year contract from date of award with the option to extend three additional one year periods.